

MIL-I-81669/33A(EC)
9 November 1979
~~SUPERSEDING~~
MIL-I-81669/33(EC)
1 May 1978

MILITARY SPECIFICATION SHEET

INSTALLING AND REMOVAL TOOLS, CONNECTOR
ELECTRICAL CONTACT, TYPE 1, CLASS 1, COMPOSITION A
(For Use With MIL-C-28840(EC) Connectors)

This specification sheet is approved for use by the Naval Electronic Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

The complete requirements for procuring the tools described herein shall consist of this document and the latest issue of specification MIL-I-81969.

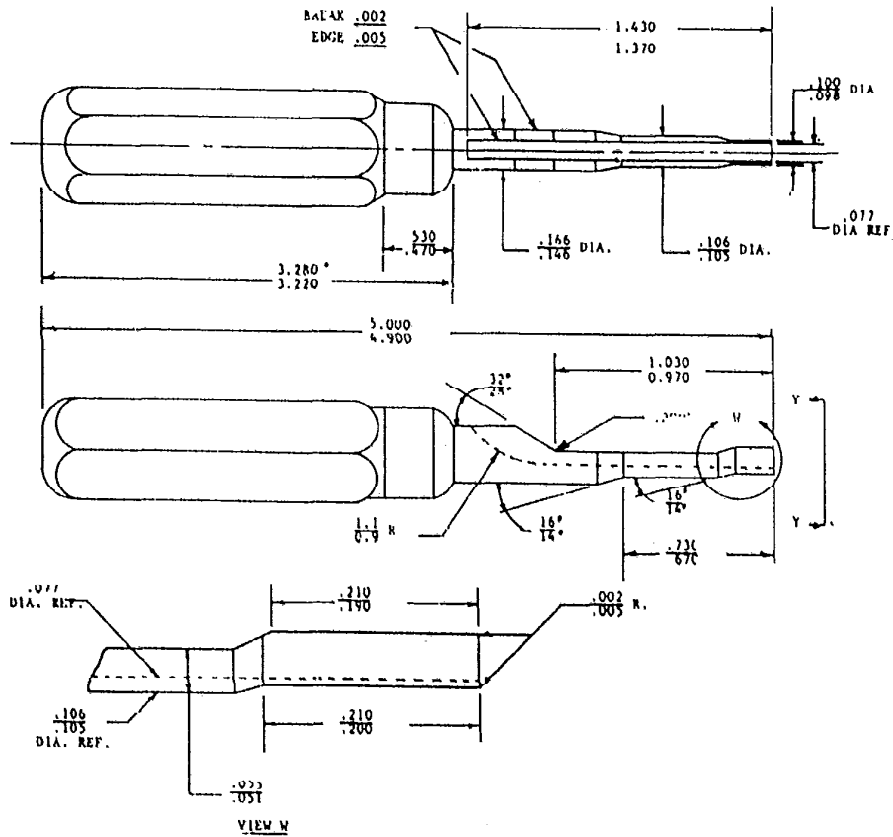
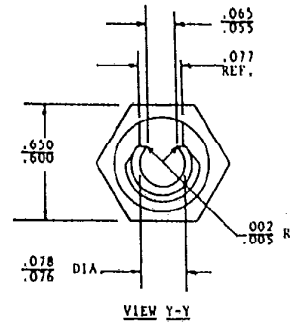


FIGURE 1. Straight extension installing tool.

FSC 5120

INCHES	MM	INCHES	MM
.002	.05	.210	5.33
.003	.11	.240	11.74
.004	.13	.270	13.48
.005	.15	.300	15.24
.006	.16	.330	16.76
.007	.18	.360	18.03
.008	.20	.390	19.91
.009	.23	.420	22.56
.010	.25	.450	24.14
.012	.30	.480	26.16
.014	.36	.510	27.94
.016	.41	.540	30.48
.018	.46	.570	33.33
.020	.51	.600	35.43
.022	.56	.630	38.10
.024	.61	.660	40.64
.026	.66	.690	43.18
.028	.71	.720	45.72
.030	.76	.750	48.26
.032	.81	.780	50.80
.034	.86	.810	53.34
.036	.91	.840	55.88
.038	.96	.870	58.42
.040	1.02	.900	60.96
.042	1.07	.930	63.50
.044	1.12	.960	66.04
.046	1.17	.990	68.58
.048	1.22	1.020	71.12
.050	1.27	1.050	73.66
.052	1.32	1.080	76.20
.054	1.37	1.110	78.74
.056	1.42	1.140	81.28
.058	1.47	1.170	83.82
.060	1.52	1.200	86.36
.062	1.57	1.230	88.90
.064	1.63	1.260	91.44
.066	1.68	1.290	93.98
.068	1.73	1.320	96.52
.070	1.78	1.350	99.06
.072	1.83	1.380	101.60
.074	1.88	1.410	104.14
.076	1.93	1.440	106.68
.078	1.98	1.470	109.22
.080	2.03	1.500	111.76
.082	2.08	1.530	114.30
.084	2.13	1.560	116.84
.086	2.18	1.590	119.38
.088	2.24	1.620	121.92
.090	2.29	1.650	124.46
.092	2.34	1.680	127.00
.094	2.39	1.710	129.54
.096	2.44	1.740	132.08
.098	2.49	1.770	134.62
.100	2.54	1.800	137.16
.102	2.59	1.830	139.70
.104	2.64	1.860	142.24
.106	2.69	1.890	144.78
.108	2.74	1.920	147.32
.110	2.79	1.950	149.86
.112	2.84	1.980	152.40
.114	2.89	2.010	154.94
.116	2.94	2.040	157.48
.118	2.99	2.070	160.02
.120	3.05	2.100	162.56
.122	3.10	2.130	165.10
.124	3.15	2.160	167.64
.126	3.20	2.190	170.18
.128	3.25	2.220	172.72
.130	3.30	2.250	175.26
.132	3.35	2.280	177.80
.134	3.40	2.310	180.34
.136	3.45	2.340	182.88
.138	3.50	2.370	185.42
.140	3.55	2.400	187.96
.142	3.60	2.430	190.50
.144	3.65	2.460	193.04
.146	3.70	2.490	195.58
.148	3.75	2.520	198.12
.150	3.81	2.550	200.66
.152	3.86	2.580	203.20
.154	3.91	2.610	205.74
.156	3.96	2.640	208.28
.158	4.01	2.670	210.82
.160	4.06	2.700	213.36
.162	4.11	2.730	215.90
.164	4.16	2.760	218.44
.166	4.21	2.790	220.98
.168	4.27	2.820	223.52
.170	4.32	2.850	226.06
.172	4.37	2.880	228.60
.174	4.42	2.910	231.14
.176	4.47	2.940	233.68
.178	4.52	2.970	236.22
.180	4.57	3.000	238.76
.182	4.62	3.030	241.30
.184	4.67	3.060	243.84
.186	4.72	3.090	246.38
.188	4.77	3.120	248.92
.190	4.82	3.150	251.46
.192	4.87	3.180	254.00
.194	4.92	3.210	256.54
.196	4.97	3.240	259.08
.198	5.02	3.270	261.62
.200	5.08	3.300	264.16

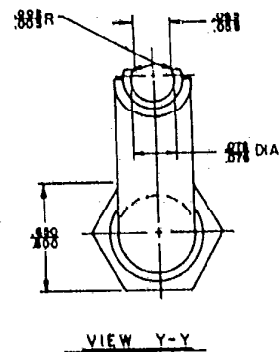
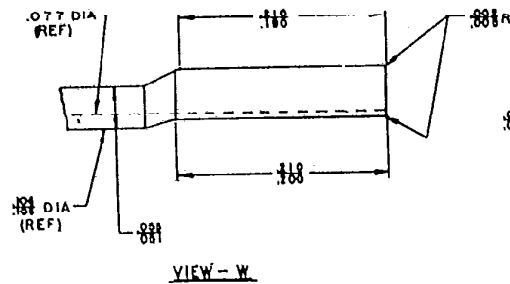
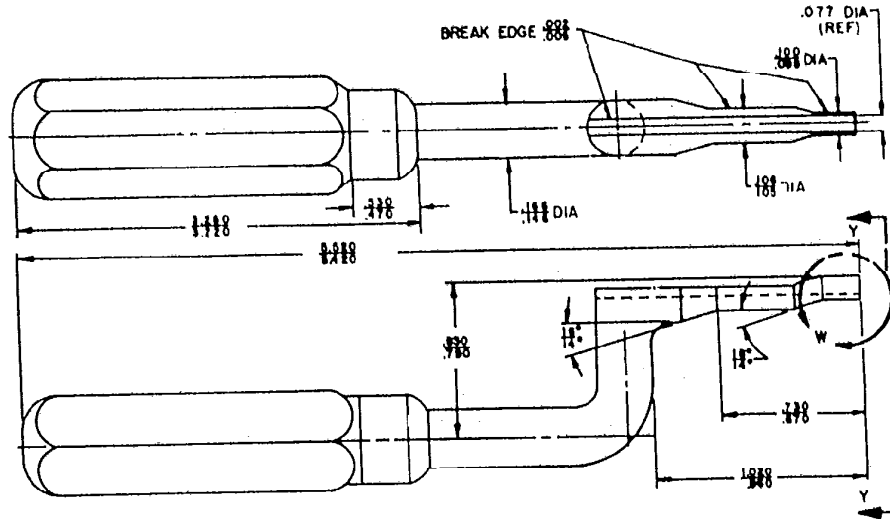


NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only and are based upon 1 inch = 25.4 mm.
3. Each tool shall be legibly and permanently marked in accordance with MIL-STD-130.

FIGURE 1. Straight extension installing tool. (Continued)

MIL-I-81969/33A(EC)



INCHES	MM	INCHES	MM
.002	.05	.210	5.33
.008	.13	.470	11.94
.081	1.90	.530	13.44
.085	1.40	.900	22.86
.088	1.40	.960	24.40
.078	1.98	.870	22.11
.077	1.98	.790	20.07
.078	1.98	.890	22.61
.096	2.44	.960	24.40
.100	2.54	1.020	25.91
.106	2.69	1.120	28.45
.106	2.71	1.180	29.97
.148	3.75	1.480	37.50
.148	3.75	1.580	40.13
.190	4.83	1.880	47.75
.200	5.08	1.980	50.29

NOTES:

1. Dimensions are in inches
2. Metric equivalents are given for general information only and are based upon 1 inch = 25.4 mm.
3. Each tool shall be legibly and permanently marked in accordance with MIL-STD-130.

FIGURE 2. Angled extension installing tool.

MIL-I-81969/33A(EC)

REQUIREMENTS:

Dimensions and configuration: See FIGURES 1 and 2

Material:

Probe: M2 steel hardened to Rockwell 53-57
condition C.
Handle: Aluminum alloy.

Finish:

Probe: Polished, free from nicks and burrs.
Handle: Not applicable, red anodized only.

Application: These tools are used to insert removable contacts in
connectors conforming to specification MIL-C-28840.

Part numbers:

Straight extension: MB1969/33-01
Angled extension: MB1969/33-02

Revision letters are not used to denote changes due to the extensiveness of the changes.

Preparing activity:
Navy-EC
(Project 5120-NP57)